

In the Claims:

Please cancel claims 54-65 without acquiescence in the Examiner's reasons for rejection and without prejudice to pursue in this or another application.

Please add the following new claims 66-87:

66. (New) A medical system, comprising:
- a plurality of electrodes configured to be placed adjacent heart tissue;
 - a controller configured for conditioning the electrodes to perform a diagnostic or therapeutic procedure on the heart tissue;
 - a display screen; and
 - a processor configured for displaying an image of the plurality of electrodes on the display screen and annotating the image with a designator that identifies and marks an electrode.
67. (New) The medical system of claim 66, wherein the controller is further configured to monitor events during the procedure, and the designator identifies and marks an electrode based on the monitored events.
68. (New) The medical system of claim 67, wherein the designator identifies and marks an electrode wherein early depolarization of the heart tissue has occurred.
69. (New) The medical system of claim 67, wherein the designator identifies and marks an electrode where a sensed electrogram appears fractionated or broken in appearance.
70. (New) The medical system of claim 67, wherein the designator identifies and marks an electrode with a high pace mapping matching index.

71. (New) The medical system of claim 67, wherein the designator identifies and marks an electrode where arrhythmia entrainment was achieved.

72. (New) The medical system of claim 66, wherein the plurality of electrodes is carried by a single electrode structure.

73. (New) A medical system, comprising:
an electrode structure having a plurality of electrodes configured to be placed adjacent heart tissue;

a controller configured for conditioning the electrode structure to perform a diagnostic or therapeutic procedure on the heart tissue;

a display screen; and

a processor configured for displaying an image of the electrode structure on the display screen and annotating the image with a designator that identifies and marks an electrode of the electrode structure in response to entry of a coordinate of the electrode by a user.

74. (New) A medical system, comprising:

a plurality of electrodes configured to be placed adjacent heart tissue;

a controller configured for conditioning the electrodes to perform a diagnostic or therapeutic procedure on the heart tissue;

a display screen; and

a processor configured for displaying an image of the plurality of electrodes on the display screen and annotating the image with a designator that identifies and marks an electrode as having a specific function.

75. (New) The medical system of claim 74, wherein the specific function is pacing.

76. (New) The medical system of claim 74, wherein the specific function is recording.

77. (New) A method of performing a medical procedure on a heart, comprising:

deploying a plurality of electrodes adjacent myocardial tissue;

performing a diagnostic or therapeutic procedure on the myocardial tissue;

generating an image of the electrodes; and

and annotating the image with a designator that identifies and marks an electrode.

78. (New) The method of claim 77, further comprising monitoring events during the procedure, wherein the designator identifies and marks an electrode based on the monitored events..

79. (New) The method of claim 78, wherein the designator identifies and marks an electrode wherein early depolarization of the heart tissue has occurred.

80. (New) The method of claim 78, wherein the designator identifies and marks an electrode where a sensed electrogram appears fractionated or broken in appearance.

81. (New) The method of claim 78, wherein the designator identifies and marks an electrode with a high pace mapping matching index.

82. (New) The method of claim 78, wherein the designator identifies and marks an electrode where arrhythmia entrainment was achieved.

83. (New) The method of claim 77, wherein the plurality of electrodes is carried by a single electrode structure.

84. (New) A method of performing a medical procedure on a heart, comprising:

deploying an electrode structure having a plurality of electrodes adjacent myocardial tissue;

performing a diagnostic or therapeutic procedure on the myocardial tissue;

generating an image of the electrode structure; and

and annotating the image with a designator that identifies and marks an electrode of the electrode structure in response to entry of a coordinate of the electrode by a user.

85. (New) A method of performing a medical procedure on a heart, comprising:

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deploying a plurality of electrodes adjacent myocardial tissue;

performing a diagnostic or therapeutic procedure on the myocardial tissue;

generating an image of the electrodes; and

and annotating the image with a designator that identifies and marks an electrode as having a specific function.

86. (New) The method of claim 85, wherein the specific function is pacing.

87. (New) The method of claim 85, wherein the specific function is recording.